

03/04/02

03-05-02

PTO/SB/05 (4/98)

Please type a plus (+) sign in this box ☐

Approved for use through 09/30/2000. OMB 0651-0032
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new non-provisional applications under 37 C.F.R. § 1.53(B))

Attorney Docket No.	S84.12-0006
First Inventor or Application Identifier	Myung-jung Hong
Title	VALVE ASSEMBLY OF A RECIPROCAL COMPRESSOR
Express Mail Label No.	EL844351206US

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

Address To: Assistant Commissioner for Patents
Box Patent Application
Washington, DC 20231

- ☒ *Fee Transmittal Form e.g., PTO/SB17
(Submit an original and a duplicate for fee processing)
- ☒ Specification [Total Sheets **16**]
(preferred arrangement set forth below)
 - Descriptive title of the Invention
 - Cross References to Related Applications
 - Statement Regarding Fed sponsored R & D
 - Reference to Microfiche Appendix
 - Background of the Invention
 - Brief Summary of the Invention
 - Brief Description of the Drawings (if filed)
 - Detailed Description
 - Claim(s)
 - Abstract of the Disclosure
- ☒ Drawing(s) (35 U.S.C. § 113) [Total Sheets **3**]
- Oath or Declaration [Total Sheets **2**]
 - ☒ Newly executed (original or copy)
 - ☐ Copy from a prior application (37 C.F.R. § 1.63(d))
(for continuation/divisional with Box 17 completed)
 - ☐ **DELETION OF INVENTOR(S)**
Signed statement attached deleting inventor(s) named in the prior application, see 37 C.F.R. §§1.63(d)(2) and 1.33(b).

- ☐ Microfiche Computer Program (Appendix)
- ☐ Nucleotide and/or Amino Acid Sequence Submission
(if applicable, all necessary)
 - ☐ Computer Readable Copy
 - ☐ Paper Copy (Identical to computer copy)
 - ☐ Statement verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

- ☒ Assignment Papers (cover sheet & document(s))
- ☐ 37 C.F.R. § 3.73(b) Statement (when there is an assignee) ☐ Power of Attorney
- ☐ English Translation Document
- ☐ Information Disclosure Statement (IDS/PTO - PTO) ☐ Copies of IDS
- ☐ Preliminary Amendment
- ☒ Return Receipt Postcard (MPEP 503)
- ☐ *Small Entity ☐ Statement filed in prior application. Status still proper and desired (PTO/SB/09-12)
- ☒ Certified Copy of Priority Document(s) (if foreign priority is claimed)
- ☐ Request and Cert. Under 35 USC 122 (Non-Pub)
- ☒ Other: Charge Authorization Forms for \$740.00 and \$40.00

* NOTE FOR ITEMS 1 & 13: IN ORDER TO BE ENTITLED TO PAY SMALL ENTITY FEES, A SMALL ENTITY STATEMENT IS REQUIRED (37 C.F.R. § 1.27), EXCEPT IF ONE FILED IN A PRIOR APPLICATION IS RELIED UPON (37 C.F.R. § 1.28).

17. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment:
- ☐ Continuation ☐ Divisional ☐ Continuation -in part (CIP) of prior application No: _____
- Prior application information: Examiner _____ Group/Art Unit: _____
- FOR CONTINUATION or DIVISIONAL APPS only:** The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 4b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

17. CORRESPONDENCE

☐ Customer Number or Bar Code Label (Insert Customer No. or Attach bar code label here) or ☒ Correspondence address below

Name	Judson K. Champlin				
	WESTMAN CHAMPLIN & KELLY				
Address	Suite 1600 - International Centre				
	900 South Second Avenue				
City	Minneapolis	State	MN	Zip Code	55402-3319
Country	USA	Telephone	(612) 334-3222	Fax	(612) 334-3312

Name (Print/type)	Judson K. Champlin	Registration No. (Attorney/Agent)	34,797
Signature		Date	3/4/02

FEE TRANSMITTAL		Complete if Known																																																																																																																																																									
		Application No.																																																																																																																																																									
		Filing Date		Herewith																																																																																																																																																							
		First Named Inventor		Myung-jung Hong																																																																																																																																																							
		Title		VALVE ASSEMBLY OF A RECIPROCAL COMPRESSOR																																																																																																																																																							
		Group Art Unit																																																																																																																																																									
		Examiner Name																																																																																																																																																									
Total Amount of Payment \$ 740		Atty. Docket Number		S84.12-0006																																																																																																																																																							
METHOD OF PAYMENT (Check One)		FEE CALCULATION (Continued)																																																																																																																																																									
1. <input checked="" type="checkbox"/> The Director is hereby authorized to charge any additional fee required under 37 C.F.R. § 1.16 and 1.17, including any petition fee, and credit any over payments to Deposit Account No. <u>23-1123</u> . Westman, Champlin & Kelly, P.A.		3. ADDITIONAL FEES <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th colspan="2">Large Entity</th> <th colspan="2">Small Entity</th> <th rowspan="2">Fee Description</th> <th rowspan="2">Fee Paid</th> </tr> <tr> <th>Fee</th> <th>Fee</th> <th>Fee</th> <th>Fee</th> </tr> <tr> <th>Code</th> <th>(\$)</th> <th>Code</th> <th>(\$)</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>105</td> <td>130</td> <td>205</td> <td>65</td> <td>Surcharge - Late filing fee or oath</td> <td></td> </tr> <tr> <td>127</td> <td>50</td> <td>227</td> <td>25</td> <td>Surcharge - Late provisional Filing Fee or cover sheet</td> <td></td> </tr> <tr> <td>139</td> <td>130</td> <td>139</td> <td>130</td> <td>Non-English specification</td> <td></td> </tr> <tr> <td>147</td> <td>2,520</td> <td>147</td> <td>2,520</td> <td>For Filing a Request for Reexamination. (ex parte)</td> <td></td> </tr> <tr> <td>115</td> <td>110</td> <td>215</td> <td>55</td> <td>Extension for reply within first month</td> <td></td> </tr> <tr> <td>116</td> <td>400</td> <td>216</td> <td>200</td> <td>Extension for reply within second month</td> <td></td> </tr> <tr> <td>117</td> <td>920</td> <td>217</td> <td>460</td> <td>Extension for reply within third month</td> <td></td> </tr> <tr> <td>118</td> <td>1,440</td> <td>218</td> <td>720</td> <td>Extension for reply within fourth month</td> <td></td> </tr> <tr> <td>128</td> <td>1,960</td> <td>280</td> <td>980</td> <td>Extension for reply within fifth month</td> <td></td> </tr> <tr> <td>120</td> <td>320</td> <td>220</td> <td>160</td> <td>Filing a brief in support of an appeal</td> <td></td> </tr> <tr> <td>121</td> <td>280</td> <td>221</td> <td>140</td> <td>Request for oral hearing</td> <td></td> </tr> <tr> <td>148</td> <td>110</td> <td>248</td> <td>55</td> <td>Terminal Disclaimer Fee</td> <td></td> </tr> <tr> <td>140</td> <td>110</td> <td>240</td> <td>55</td> <td>Petition to Revive - unavoidable</td> <td></td> </tr> <tr> <td>141</td> <td>1,310</td> <td>241</td> <td>670</td> <td>Petition to Revive - unintentional</td> <td></td> </tr> <tr> <td>142</td> <td>1,310</td> <td>242</td> <td>670</td> <td>Utility/Reissue issue fee (inc. advance copies)</td> <td></td> </tr> <tr> <td>143</td> <td>490</td> <td>243</td> <td>260</td> <td>Design issue fee (inc. advance copies)</td> <td></td> </tr> <tr> <td>122</td> <td>130</td> <td>122</td> <td>130</td> <td>Petitions to the Commissioner</td> <td></td> </tr> <tr> <td>123</td> <td>50</td> <td>123</td> <td>50</td> <td>Petitions related to provisional applications</td> <td></td> </tr> <tr> <td>126</td> <td>180</td> <td>126</td> <td>180</td> <td>Submission of Information Disclosure Statement</td> <td></td> </tr> <tr> <td>581</td> <td>40</td> <td>581</td> <td>40</td> <td>Recording each patent assignment per property (times number of properties)</td> <td></td> </tr> <tr> <td colspan="6">Other Fee (specify) _____</td> </tr> <tr> <td colspan="6" style="text-align: right;">Subtotal (3) \$</td> </tr> </tbody> </table>						Large Entity		Small Entity		Fee Description	Fee Paid	Fee	Fee	Fee	Fee	Code	(\$)	Code	(\$)			105	130	205	65	Surcharge - Late filing fee or oath		127	50	227	25	Surcharge - Late provisional Filing Fee or cover sheet		139	130	139	130	Non-English specification		147	2,520	147	2,520	For Filing a Request for Reexamination. (ex parte)		115	110	215	55	Extension for reply within first month		116	400	216	200	Extension for reply within second month		117	920	217	460	Extension for reply within third month		118	1,440	218	720	Extension for reply within fourth month		128	1,960	280	980	Extension for reply within fifth month		120	320	220	160	Filing a brief in support of an appeal		121	280	221	140	Request for oral hearing		148	110	248	55	Terminal Disclaimer Fee		140	110	240	55	Petition to Revive - unavoidable		141	1,310	241	670	Petition to Revive - unintentional		142	1,310	242	670	Utility/Reissue issue fee (inc. advance copies)		143	490	243	260	Design issue fee (inc. advance copies)		122	130	122	130	Petitions to the Commissioner		123	50	123	50	Petitions related to provisional applications		126	180	126	180	Submission of Information Disclosure Statement		581	40	581	40	Recording each patent assignment per property (times number of properties)		Other Fee (specify) _____						Subtotal (3) \$					
Large Entity								Small Entity		Fee Description	Fee Paid																																																																																																																																																
Fee	Fee	Fee	Fee																																																																																																																																																								
Code	(\$)	Code	(\$)																																																																																																																																																								
105	130	205	65	Surcharge - Late filing fee or oath																																																																																																																																																							
127	50	227	25	Surcharge - Late provisional Filing Fee or cover sheet																																																																																																																																																							
139	130	139	130	Non-English specification																																																																																																																																																							
147	2,520	147	2,520	For Filing a Request for Reexamination. (ex parte)																																																																																																																																																							
115	110	215	55	Extension for reply within first month																																																																																																																																																							
116	400	216	200	Extension for reply within second month																																																																																																																																																							
117	920	217	460	Extension for reply within third month																																																																																																																																																							
118	1,440	218	720	Extension for reply within fourth month																																																																																																																																																							
128	1,960	280	980	Extension for reply within fifth month																																																																																																																																																							
120	320	220	160	Filing a brief in support of an appeal																																																																																																																																																							
121	280	221	140	Request for oral hearing																																																																																																																																																							
148	110	248	55	Terminal Disclaimer Fee																																																																																																																																																							
140	110	240	55	Petition to Revive - unavoidable																																																																																																																																																							
141	1,310	241	670	Petition to Revive - unintentional																																																																																																																																																							
142	1,310	242	670	Utility/Reissue issue fee (inc. advance copies)																																																																																																																																																							
143	490	243	260	Design issue fee (inc. advance copies)																																																																																																																																																							
122	130	122	130	Petitions to the Commissioner																																																																																																																																																							
123	50	123	50	Petitions related to provisional applications																																																																																																																																																							
126	180	126	180	Submission of Information Disclosure Statement																																																																																																																																																							
581	40	581	40	Recording each patent assignment per property (times number of properties)																																																																																																																																																							
Other Fee (specify) _____																																																																																																																																																											
Subtotal (3) \$																																																																																																																																																											
2. <input checked="" type="checkbox"/> Charge Authorization-PTO Form 2038 for \$740.00																																																																																																																																																											
FEE CALCULATION																																																																																																																																																											
1. BASIC FILING FEE																																																																																																																																																											
<table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th colspan="2">Large Entity</th> <th colspan="2">Small Entity</th> <th rowspan="2">Fee Description</th> </tr> <tr> <th>Fee</th> <th>Fee</th> <th>Fee</th> <th>Fee</th> </tr> <tr> <th>Code</th> <th>(\$)</th> <th>Code</th> <th>(\$)</th> <th></th> </tr> </thead> <tbody> <tr> <td>101</td> <td>740</td> <td>201</td> <td>370</td> <td><input checked="" type="checkbox"/> Utility Filing Fee</td> </tr> <tr> <td>106</td> <td>330</td> <td>206</td> <td>165</td> <td><input type="checkbox"/> Design Filing Fee</td> </tr> <tr> <td>108</td> <td>740</td> <td>208</td> <td>370</td> <td><input type="checkbox"/> Reissue Filing Fee</td> </tr> <tr> <td>114</td> <td>160</td> <td>214</td> <td>80</td> <td><input type="checkbox"/> Prov. Filing Fee</td> </tr> <tr> <td colspan="5" style="text-align: right;">Subtotal (1) \$ 740</td> </tr> </tbody> </table>		Large Entity		Small Entity		Fee Description	Fee	Fee	Fee	Fee	Code	(\$)	Code	(\$)		101	740	201	370	<input checked="" type="checkbox"/> Utility Filing Fee	106	330	206	165	<input type="checkbox"/> Design Filing Fee	108	740	208	370	<input type="checkbox"/> Reissue Filing Fee	114	160	214	80	<input type="checkbox"/> Prov. Filing Fee	Subtotal (1) \$ 740																																																																																																																							
Large Entity		Small Entity		Fee Description																																																																																																																																																							
Fee	Fee	Fee	Fee																																																																																																																																																								
Code	(\$)	Code	(\$)																																																																																																																																																								
101	740	201	370	<input checked="" type="checkbox"/> Utility Filing Fee																																																																																																																																																							
106	330	206	165	<input type="checkbox"/> Design Filing Fee																																																																																																																																																							
108	740	208	370	<input type="checkbox"/> Reissue Filing Fee																																																																																																																																																							
114	160	214	80	<input type="checkbox"/> Prov. Filing Fee																																																																																																																																																							
Subtotal (1) \$ 740																																																																																																																																																											
2. EXTRA CLAIM FEES																																																																																																																																																											
<table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th></th> <th>Number Claims</th> <th>Prior**</th> <th>Extra</th> <th>Fee from Below</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr> <td>Total</td> <td>9</td> <td>20</td> <td>0</td> <td>18</td> <td>0</td> </tr> <tr> <td>Indep.</td> <td>2</td> <td>3</td> <td>0</td> <td>84</td> <td>0</td> </tr> </tbody> </table>			Number Claims	Prior**	Extra	Fee from Below	Fee Paid	Total	9	20	0	18	0	Indep.	2	3	0	84	0																																																																																																																																								
	Number Claims	Prior**	Extra	Fee from Below	Fee Paid																																																																																																																																																						
Total	9	20	0	18	0																																																																																																																																																						
Indep.	2	3	0	84	0																																																																																																																																																						
Multiple Dependent Claims ** Insert 3 and 20, or number previously paid if greater, Reissue see below <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th colspan="2">Large Entity</th> <th colspan="2">Small Entity</th> <th rowspan="2">Description</th> </tr> <tr> <th>Fee</th> <th>Fee</th> <th>Fee</th> <th>Fee</th> </tr> <tr> <th>Code</th> <th>(\$)</th> <th>Code</th> <th>(\$)</th> <th></th> </tr> </thead> <tbody> <tr> <td>103</td> <td>18</td> <td>203</td> <td>9</td> <td>Claims in excess of 20</td> </tr> <tr> <td>102</td> <td>84</td> <td>202</td> <td>42</td> <td>Independent claims in excess of 3</td> </tr> <tr> <td>104</td> <td>280</td> <td>204</td> <td>140</td> <td>Multiple Dependent Claims</td> </tr> <tr> <td>109</td> <td>84</td> <td>209</td> <td>42</td> <td>Reissue Independent Claims over Original Patent</td> </tr> <tr> <td>110</td> <td>18</td> <td>210</td> <td>9</td> <td>Reissue claims in excess of 20 and over original patent</td> </tr> <tr> <td colspan="5" style="text-align: right;">Subtotal (2) \$ 0</td> </tr> </tbody> </table>		Large Entity		Small Entity		Description	Fee	Fee	Fee	Fee	Code	(\$)	Code	(\$)		103	18	203	9	Claims in excess of 20	102	84	202	42	Independent claims in excess of 3	104	280	204	140	Multiple Dependent Claims	109	84	209	42	Reissue Independent Claims over Original Patent	110	18	210	9	Reissue claims in excess of 20 and over original patent	Subtotal (2) \$ 0																																																																																																																		
Large Entity		Small Entity		Description																																																																																																																																																							
Fee	Fee	Fee	Fee																																																																																																																																																								
Code	(\$)	Code	(\$)																																																																																																																																																								
103	18	203	9	Claims in excess of 20																																																																																																																																																							
102	84	202	42	Independent claims in excess of 3																																																																																																																																																							
104	280	204	140	Multiple Dependent Claims																																																																																																																																																							
109	84	209	42	Reissue Independent Claims over Original Patent																																																																																																																																																							
110	18	210	9	Reissue claims in excess of 20 and over original patent																																																																																																																																																							
Subtotal (2) \$ 0																																																																																																																																																											

Signature Judson K Champlin
 Date March 4, 2002

Reg. No. 34,797

Deposit Account No. 23-1123